

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 89 - 145
NPDES NO. CA0029556
WASTE DISCHARGE REQUIREMENTS FOR:

Aratex Services, Inc.
San Jose
Santa Clara County

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board), finds that:

1. Aratex Services, Inc. (Aratex) by application dated February 20, 1989, has applied for issuance of waste discharge requirements and a permit to discharge waste under the National Pollutant Discharge Elimination System (NPDES).
2. Aratex is the former owner of the property located at 920 Chesnut Street, San Jose (site). Aratex operated an industrial laundry business at the site from 1970 to 1982. Mr. Hanley Murray purchased the property in 1983 and currently operates the site as a storage area for vehicle parts and abandoned and disabled vehicles impounded in connection with his towing business, and leases a portion of the premises for use as an automobile shop. Aratex is hereinafter referred to as discharger. Aratex is defined as a discharger for purposes of this NPDES permit, for the extraction, treatment and discharge of groundwater. This is separate from the definition of discharger for purposes of Site Cleanup Requirements, Order No. 88-087. Aratex and Mr. Hanley Murray are presently operating under Order No. 88-087 for the investigation and interim remediation of groundwater and soil contamination at the site.
3. Ten underground tanks were present at the site. From 1970 to 1980, gasoline was stored by Aratex in one 10,000 gallon tank for use in merchandise delivery vehicles. From about 1970 to October, 1982, seven 1,500 gallon and two 10,000 gallon storage tanks served as storage for the stoddard solvent and treatment oil used by Aratex for cleaning industrial gloves, dust and sweeping cloths and floor mops for rental and re-use. Three years after purchasing the subject property in 1983, Mr. Murray had all ten underground tanks removed.
4. Subsurface investigations have detected the presence of aromatic hydrocarbons and stoddard solvent in the soil and groundwater at the site. Floating product has been measured in monitoring wells at depths up to 7.6 feet, comprised of approximately 60% stoddard solvent, 10% gasoline and 30% other petroleum hydrocarbons.

5. The discharger seeks to contain the further migration of pollutants and to initiate the interim cleanup of the shallow zone by extracting groundwater from three shallow zone wells. Remediation measures also include in situ soil-vapor extraction and treatment.
6. An average of 10 gallons per minute (gpm) will be treated by oil/water separation, biological treatment, clarification, filtration and carbon adsorption, prior to discharge to a storm drain system tributary to the Guadalupe River and South San Francisco Bay.
7. The Regional Board adopted a revised Water Quality Control Plan for the San Francisco Bay Region (Basin Plan) on December 17, 1986. The Basin Plan contains water quality objectives for the Guadalupe River and South San Francisco Bay.
8. The existing and potential beneficial uses of the Guadalupe River include:
 - Contact Water Recreation
 - Warm Fresh Water Habitat
 - Preservation of Areas of Special Biological Significance
 - Marine Habitat
 - Navigation
 - Commercial and Sport Fishing
 - Fish Spawning and Migration
9. The existing and potential beneficial uses of South San Francisco Bay include:
 - Contact and Non-contact Water Recreation
 - Wildlife Habitat
 - Preservation of Rare and Endangered Species
 - Estuarine Habitat
 - Fish Spawning and Migration
 - Industrial Service Supply
 - Shellfishing
 - Navigation
 - Ocean Commercial and Sport Fishing
10. The Basin Plan prohibits the discharge of wastewater which has "particular characteristics of concern to beneficial uses" (a) "at any point in San Francisco Bay south of the Dumbarton Bridge" and (b) "at any point where the wastewater does not receive a minimum initial dilution of at least 10:1 or into any nontidal water, deadend slough, similar confined water, or any immediate tributary thereof."
11. The Basin Plan allows for exceptions to the prohibitions referred to in Finding 10 above when it can be demonstrated that a net environmental benefit can be derived as a result of the discharge.
12. Exceptions to the prohibitions referred to in Finding 10 are warranted because the discharge is an integral part of a groundwater remediation program and thereby

produces an environmental benefit, and because receiving water concentrations are expected to be below levels that would effect beneficial uses.

13. The Basin Plan prohibits discharge of "all conservative toxic and deleterious substances, above those levels which can be achieved by a program acceptable to the Board, to waters of the Basin." The discharger's groundwater extraction and treatment system and associated operation, maintenance, and monitoring plan constitutes an acceptable control program for minimizing the discharge of toxicants to waters of the State.
14. Effluent limitations in this Order are based on the Basin Plan, State plans and policies, this Board's "Discharge of Polluted Groundwater to Surface Waters: Guidance Document, September 1985", the EPA draft, "NPDES Permit Limitations for Discharge of contaminated Groundwater: Guidance Document" and best engineering judgment.
15. The issuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (CEQA) pursuant to Section 13389 of the California Water Code.
16. The Board has notified the discharger and interested agencies and persons of its intent to issue waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
17. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Clean Water Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Effluent Limitations

1. The effluent at a point in the outlet or outfall from the groundwater treatment system prior to discharge to the storm drain shall not contain constituents in excess of the following limits.

<u>Constituent</u>	<u>Units</u>	<u>Instantaneous Maximum</u>
Toluene	ug/l	0.5
Benzene	ug/l	5
Xylene	ug/l	5
Total Petroleum Hydrocarbons	ug/l	50
Stoddard Solvent	ug/l	50

2. The pH of the discharge shall not exceed 8.5 nor be less than 6.5.
3. In any representative set of samples, the discharge of waste shall meet the following limit of quality:

TOXICITY: The survival of rainbow trout in 96 hour bioassays of the effluent as discharged shall be a median of 90% survival and a 90 percentile value of not less than 70% survival.

B. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place:
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths;
 - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
 - d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.
2. The discharge of waste shall not cause the following limits to be exceeded in waters of the State in any place within one foot of the water surface:
 - a. pH: The pH shall not be depressed below 6.5 nor raised above 8.5, nor caused to vary from normal ambient pH levels by more than 0.5 units.
3. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

C. Provisions

1. The discharger shall comply with all sections of this Order immediately upon discharge.
2. The discharger shall comply with the self-monitoring program as adopted by the Board and as may be amended by the Executive Officer.
3. The discharger shall also notify the Regional Board if any activity has occurred or will occur which would result in the discharge, on a frequent or routine basis, of any toxic pollutant which is not limited by this Order.
4. The discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements" dated December 1986, except items B.2, B.3, C.8, and C.11.
5. This Order expires September 20, 1994. The discharger must file a report of waste discharge in accordance with Title 23, Chapter 3, Subchapter 9 of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.
6. This Order shall serve as a National Pollutant Discharge Elimination System Permit pursuant to Section 402 of the Clean Water Act or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objection. If the Regional Administrator objects to its issuance, the permit shall not become effective until such objection is withdrawn.

I, Steven R. Ritchie, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on September 20, 1989.


Steven R. Ritchie
Executive Officer

Attachments:

Standard Provisions & Reporting Requirements, December 1986
Self-Monitoring Program
Site Map

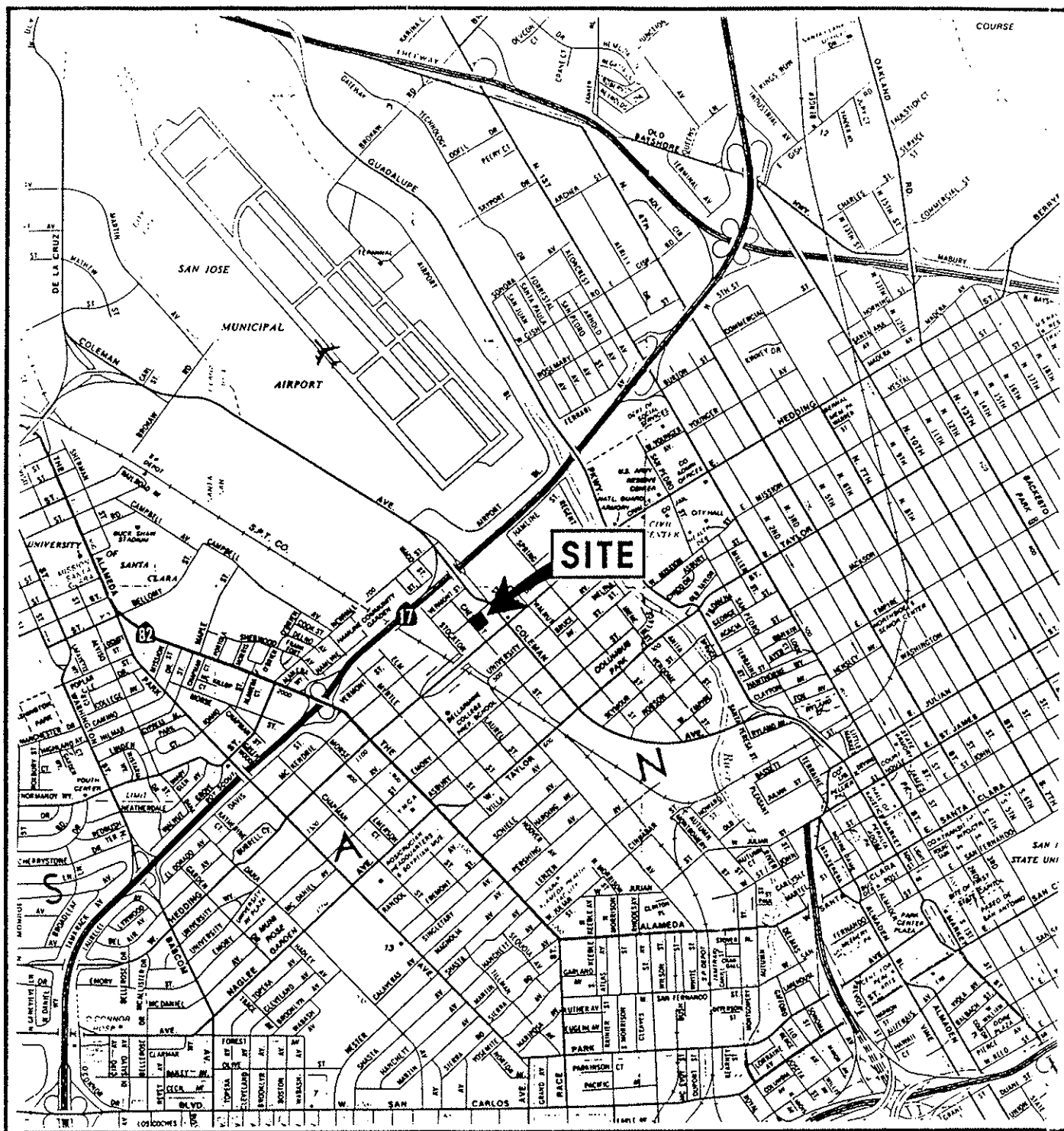


Figure 1 : SITE LOCATION MAP

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

ARATEX SERVICES, INC.
SAN JOSE, SANTA CLARA COUNTY

NPDES NO. CA0029556

ORDER NO. 89 - 145

CONSISTS OF
PART A, DEC. 1986
(As modified by SBTD 1/23/87,
with Appendices A - E)

and
PART B, adopted
September 20, 1989

PART B

ARATEX SERVICES, INC.
San Jose, Santa Clara County

I. DESCRIPTION OF SAMPLING STATIONS

<u>Stations</u>	<u>Descriptions</u>
A. <u>Influent</u>	
I-1	At a point in the groundwater extraction/treatment system immediately prior to any treatment.
B. <u>Effluent</u>	
E-1	At a point in the groundwater extraction/treatment system immediately following treatment and prior to discharging into the storm drain.
C. <u>Receiving Waters</u>	
C-1	At a point in the Guadalupe River within 10 meters downstream from the storm drain discharge point.

II. MISCELLANEOUS REPORTING

At least 30 days before any chemicals are utilized in or added to the treatment system, they shall be reported to the Executive Officer for review and approval. Following are three compounds which have been reviewed and approved to date: a nitrogen and phosphorous based nutrient solution which will be added to the influent, a silica-based anti-foaming agent which may be added to the bio-reactor, and an organic carbon substrate which may be added to the bio-reactor.

III. SCHEDULE OF SAMPLING AND ANALYSIS

A. The schedule of sampling and analysis is provided in Table 1 (attached).

IV. MODIFICATION OF PART A

A. Delete Sections D.2.e, D.2.g, E.1.e, E.1.f, E.3 and E.4.

B. The first paragraph of Section G.4 shall be changed to read as follows:

Written reports shall be filed with the Regional Board regularly for the quarterly periods February through April, May through July, August through October, and November through January, and filed no later than the thirtieth day of the following month. The reports shall be comprised of the following:

C. Information requested under Section G.4.e shall be prepared in a format similar to EPA Form 3320-1 and shall be submitted only to the Regional Board.

I, Steven R. Ritchie, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order NO. 89 - 145.
2. Was adopted by the Board on September 20, 1989.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or upon request from the discharger, and revisions will be ordered by the Executive Officer.



Steven R. Ritchie
Executive Officer

Attachments: Table 1

TABLE 1
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

SAMPLING STATION>>>>	I-1	E-1	C-1	
TYPE OF SAMPLE	G	G	G	
Flow Rate (gal/day)		D		
pH (units)	M	M	Q	
Temperature (deg. C)		M		
EPA Method 8020	W/M	W/M	Q	
EPA Method 8015 for Total Petroleum Hydrocarbons, Stoddard Solvent, Gasoline and Diesel	W/M	W/M	Q	
Toxicity		1/Y		
Priority Pollutant Metals	1/Y	1/Y		

LEGEND FOR TABLE 1

G = grab sample

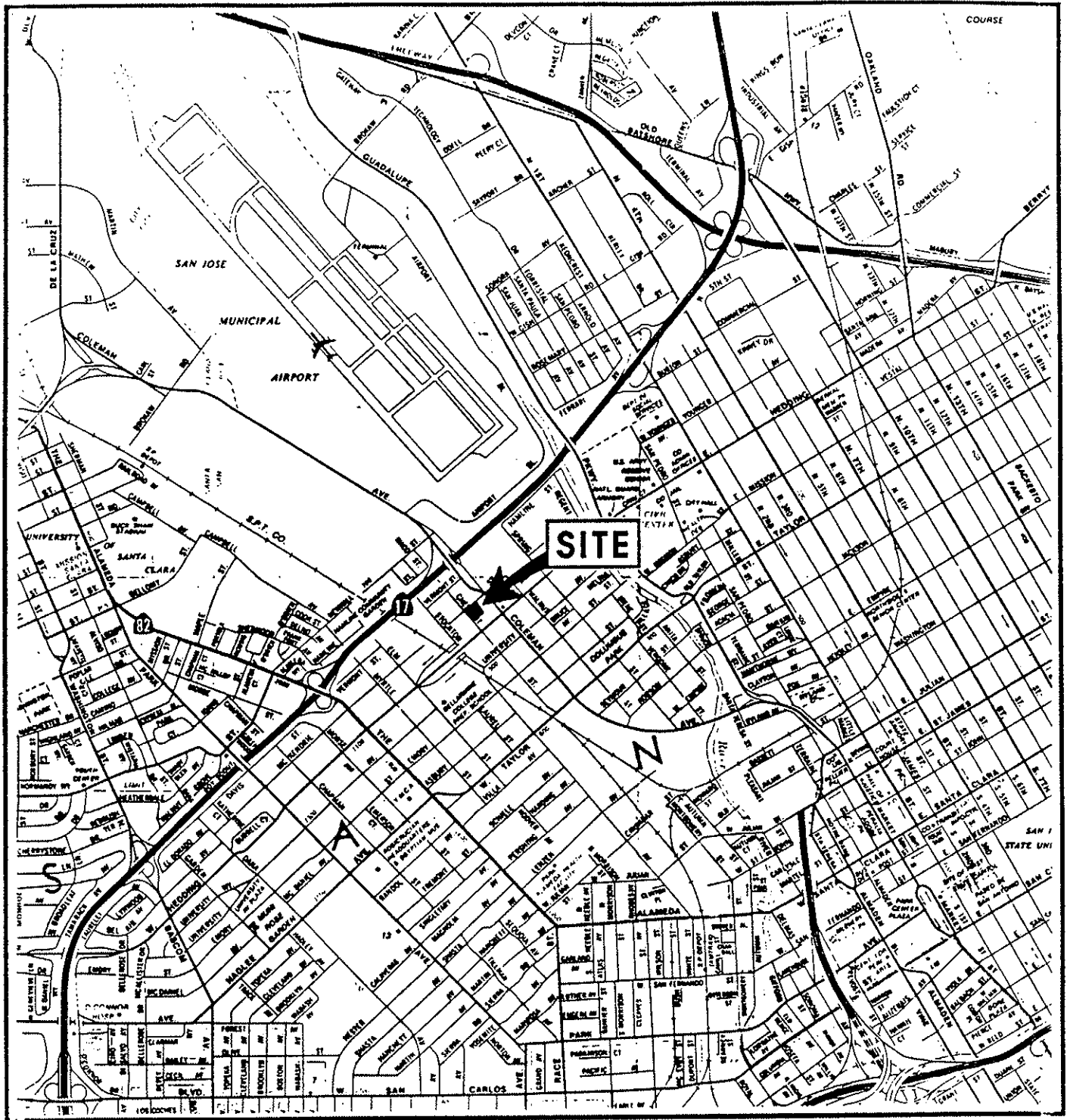
D = once each day

M = once each month

Q = quarterly, once in March, June, September and December

1/Y = once per year

W/M = Weekly for first month, monthly thereafter



MAP SOURCE:
California State Automobile Association

Figure 1 : SITE LOCATION MAP